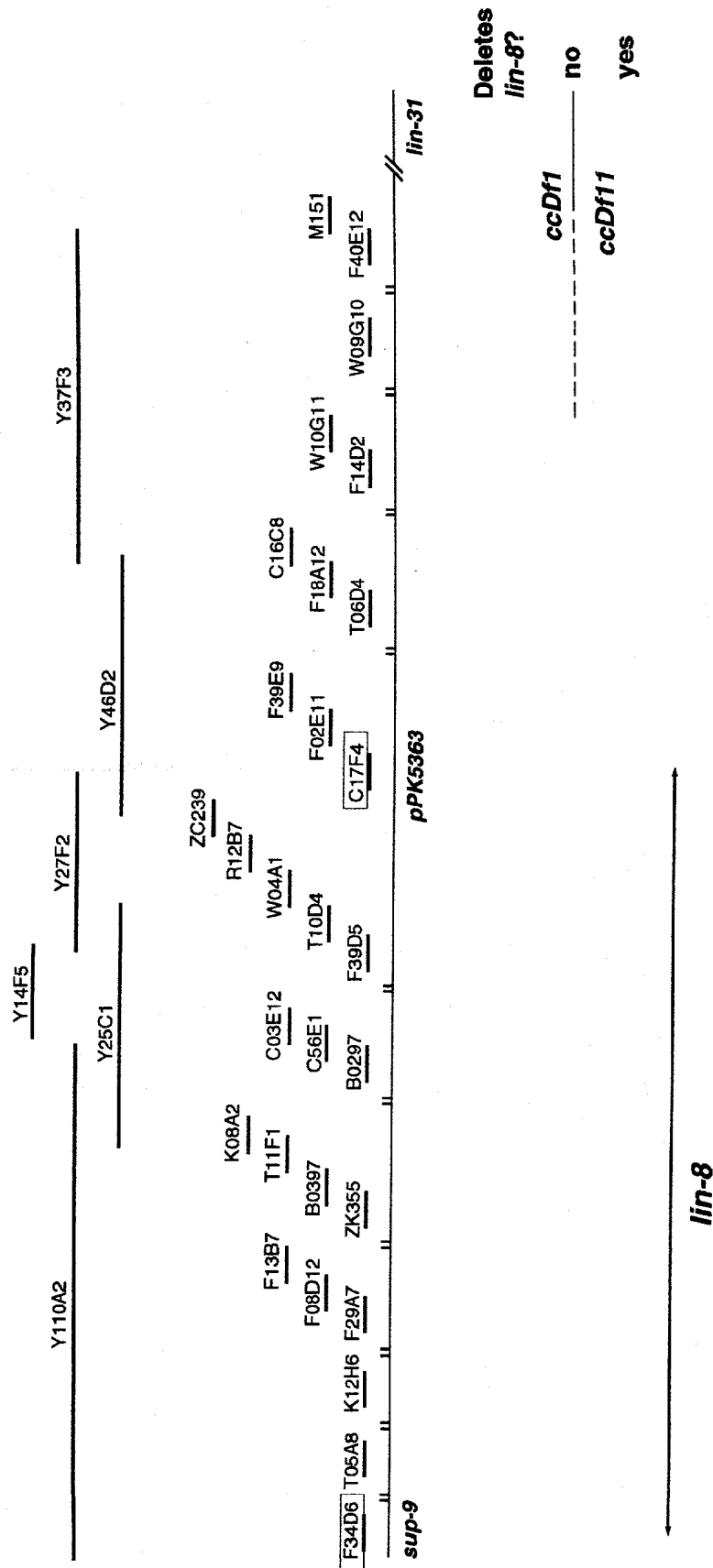
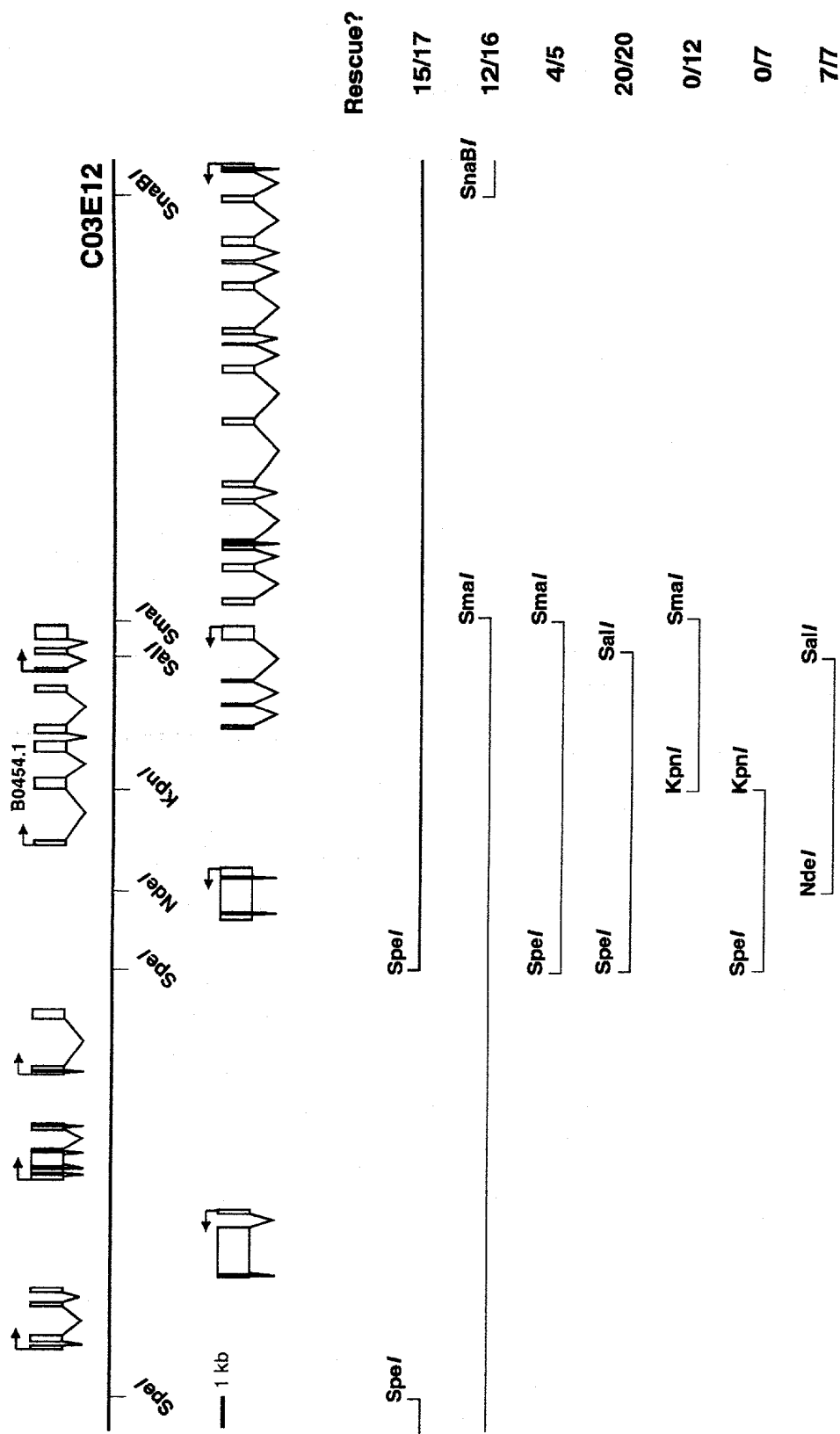


Year	Area	Population	Area	Population	Area	Population
1950	100	100	100	100	100	100
1955	100	100	100	100	100	100
1960	100	100	100	100	100	100
1965	100	100	100	100	100	100
1970	100	100	100	100	100	100
1975	100	100	100	100	100	100
1980	100	100	100	100	100	100
1985	100	100	100	100	100	100
1990	100	100	100	100	100	100
1995	100	100	100	100	100	100
2000	100	100	100	100	100	100
2005	100	100	100	100	100	100
2010	100	100	100	100	100	100
2015	100	100	100	100	100	100
2020	100	100	100	100	100	100
2025	100	100	100	100	100	100
2030	100	100	100	100	100	100
2035	100	100	100	100	100	100
2040	100	100	100	100	100	100
2045	100	100	100	100	100	100
2050	100	100	100	100	100	100
2055	100	100	100	100	100	100
2060	100	100	100	100	100	100
2065	100	100	100	100	100	100
2070	100	100	100	100	100	100
2075	100	100	100	100	100	100
2080	100	100	100	100	100	100
2085	100	100	100	100	100	100
2090	100	100	100	100	100	100
2095	100	100	100	100	100	100
2100	100	100	100	100	100	100



[illegible]

75 MSKIK THSTGSKRTVPFYKLPPLPPPLPPPLPPPTTRYFSTEKY IALSKDEKFK FDDYDVNDETLLKKVVLNEIGKC
 62 MSLIKQE-----LLDAPPPPPAATPLPPI--THRISLSCYRNI--HAKSFLKTMMDLCVRVVLSSLLENR
 60 MSLIKQE-----HMHPPPRAITPLPPA--THQITILEYKER--EKDYRDATK DASVKVWVLSLLKDH
 60 MSLIKQE-----HMNPPPRITITPLPPP--THQITILEYKER--VKRDYRNATKDTSLKKVWVLSLIKDR
 61 MSLIKQE-----GVVADAPRALTIPIPF--IHVSMEEYMGV--ELNSVYEEATKDSALKKVVLDLLKDR
 67 MNPKEE--PRFSIVPLPRPRPTTLPPI--SHCITMADYLL--ENTKFHKATRAPIKKVL SLLKDR
 68 MVSATRV--PRRSITTSATAQRTPSPLMPA--SFPITMDEYLEK--ENREFVUNASKDIAMKKLAL TLELY
 62 MSRIKQE-----QVNPPPPRAITPLPPA--THRITMDEYKKR--EKDYRDATK DASVKVWVLSLLKDY
 143 PDIWSSRSQAAIMEHYPIVATETYRRTGLLL-----SIKSL KQIYKCGKDNLRNLRVAIVSKRLTPAQVEAY
 129 RALWIRVHKSPKADWEVLGV-EVFERTGKAV-----SVKQLQRIFLTARDWLRNQLYI IQRKMDKLTLD AE
 127 PGMWQNGNRFQPEKWRALGV-DVYQRTGQIV-----RVNDMRKMLVMGKSVLKKKIAICIRDKKLDRAATEKD
 134 KAMWAPAAKPSDEKWKQLGA-EVFSRTGKV-----SVTQLRRMLVSSKHVLKTKMSHCIVKKMMDRVSTEAY
 134 PGMWQNGNRFQLENWRELGV-DVYQRTGQIVRAELGEVSVNDMHRMFVVGKAVLKQKITVCIRYKCLDRAATEAD
 128 PEIWRKARQFSAKNWQNLGV-EVYERTGYIV-----RSNDLHKMLRTAKVVLKNKLRTCIGIKKLDRAATE
 134 PEMWKPGGPMVAKKKWAFGA-EMYYRTGKIY-----RCKDLHSVFTLTSSIKRKLRTCILIKRMHRSKTDEE
 135 PDMWQNGNRFQTRKKWRALGV-EVYQRTGQIV-----GVDDMRKMFMSGKTVLKQKITFCIRNMKMDRAATEAD
 129
 214 MWRWEFYGFIRYYRDYTORWEADLLKDLDVVLGLEARRASKNMEKVDSGELMEPEMPMDSTMDMCVEEP...
 177 LAKWELYPHFIYYRQYLQGFEAHL-----RGEE-----WTGELY-----DDDIICDGMQVEV...
 178 LWYWEYRHFLLYYRRTLQGFANL-----RGEE-----WTGEDQIQDE--DDIYYDGMLDGDL...
 186 LWNWEFYRHFLLYYREMLDRFEANL-----RGKQ-----WTGEDQPTDD-DDDIICDGFIFEM...
 180 LQNWFEYRHFYRRETLQGFANL-----RGEQ-----WTGEDQADD-DDDIYYDGFIFEM...
 186 LWKWEYYPHFYRRETLGHFEANL-----RGEQ-----WDGEAHIDDD-DDDIYEGYWEADK...
 186 MWKYELYPFYQYRQSIGQFEAKL-----RDEP-----WTGEDQAQED--DDILFDGLFEVEN...
 178 LQNWWEYRHFLLYYRQTLGKFEAKL-----RGEQ-----WIGEDQVEDDEDVIFDGES
 386
 366 ...EEMNQITYQAIRIAREQPERKLRLKALFDVVLAFDQK--EYADVGDLYRDLAQKNS
 331 ...EDSVSYTKITEDLLQKKPHKHRRFIRQALFKTIMALDDDEVEYTELADLFGDIAEQSNVVRRLRLRQQQRGRGEQ
 327 ...RSAQHIAEQAKRLFLQYPEKSNLIRETMFKTILAFDDPSADYQNVGEIFDDLAAQEAARKKRAENRAQREQ
 321 ...STAEQIGEEIDRLIQLYPQREMLIRQAFFKTI FALEDETVEFSLNGLDFEDLAEQENFKRRRRSRAQRL E
 344 ...STAEQIGEEIDRLIQLYPQREMLIRQAFFKTI FALEDETVEFSLNGLDFEDLAEQENFKRRRRSRAQRL E
 331 ...NSAQHIGEQQVHRLFAQYPERSKLFRETFLKTI LALEP--EYEHAAEVFTDLAQSETAKRRRRSEATWQNGQ
 ...KTADNIGDQVKQLFVDHPDRANFFREVLFKTVLELRDP--AFTNAGVFFDEMSSLES AKRRRRRSEMNK

—0.1 mu

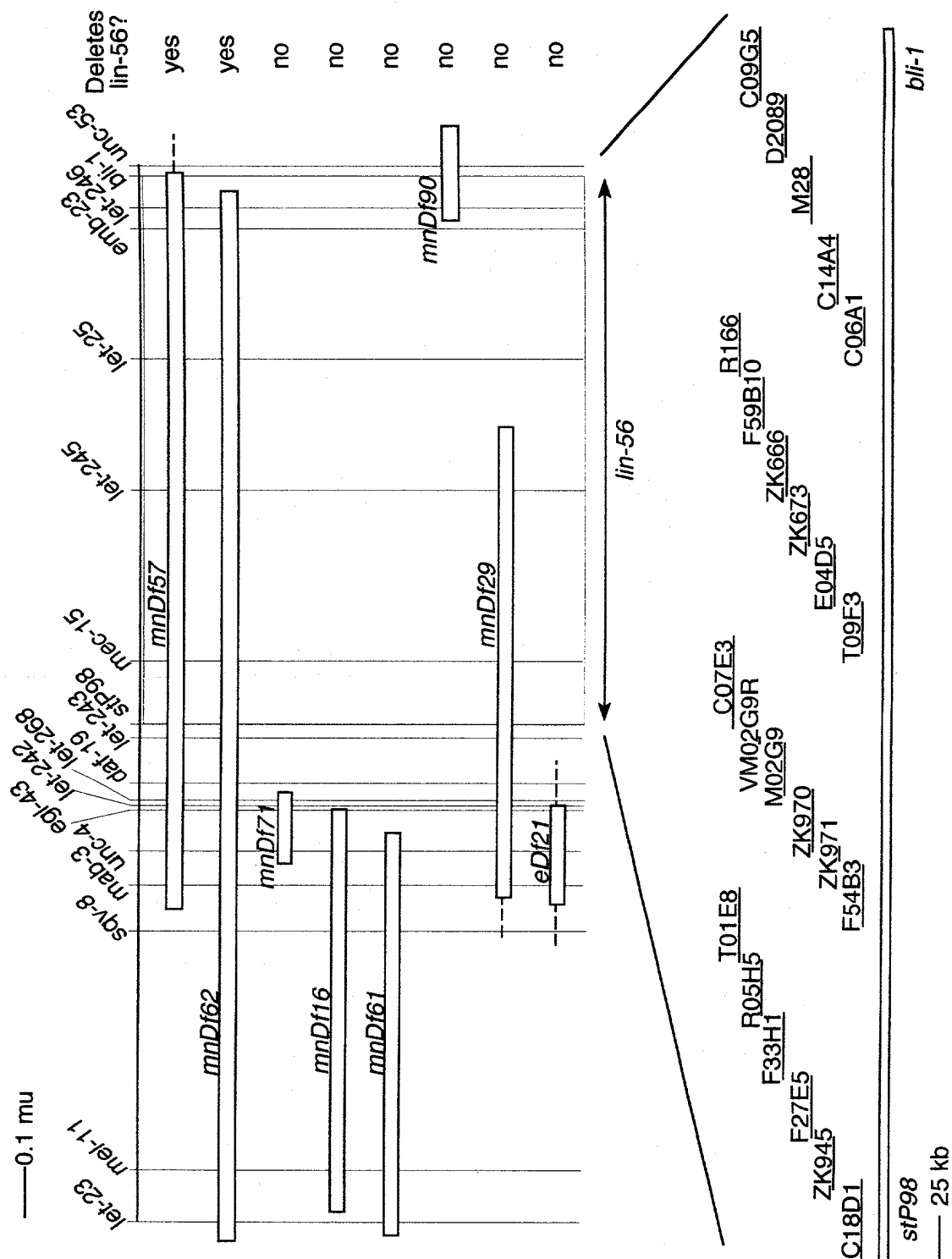


FIG. 5

FIG. 5

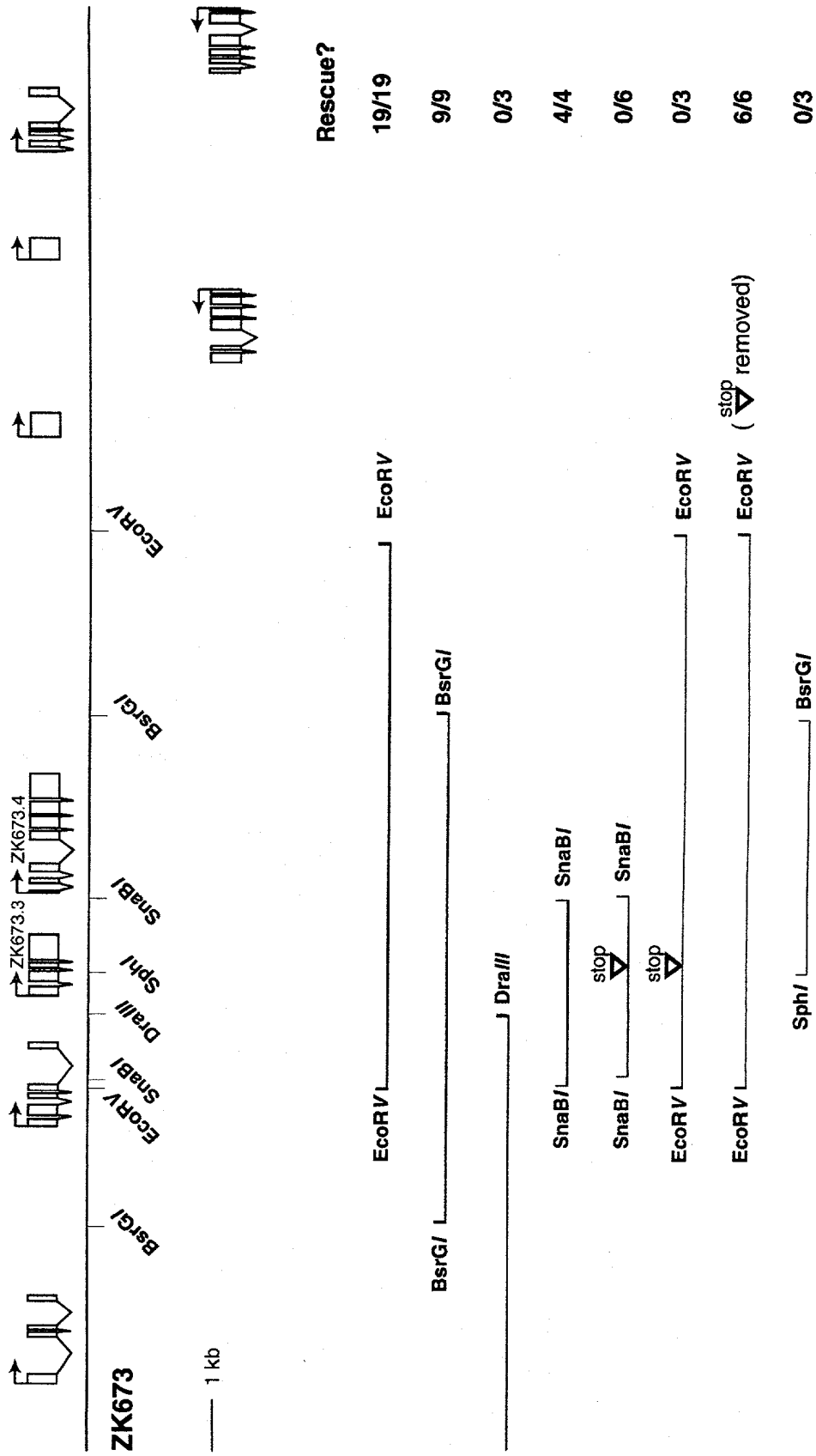


FIG. 6

LIN-56

MDHHAMYRTAEFNKTTVRLLAEFI EKTGQNATIVNMDSFLEFFAYLNPTA 50
 PIPTVPEIEKQLLLKSPIRCIVCGMETESDSAVTLSIDNASIILTATVIG 100
 YCRDPSDAVNQIRKESLRACKHFNSTFHVIFEGQLIENTYCAHHAKYSL 150
 ANRWCKVYTMIRSSLGEQFTKFDVRNFKSILQSFLDTFGEIDDDKKDKES 200
 SHFDECFEEMDSERVEIKMESPQEEAAEKSENFSENLVEVKLEPIETHELD 250
 KTISDFSSSDI IDSSQKLQNGFFPEKVEQMDKYSNKLKDEASDKKYEKPG 300
 KKDYVEEEGYWAPIITDSEDDDEA 322

69
 211
 176
 274

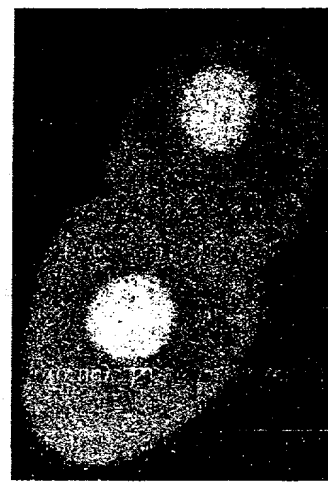
RIVVGMETESDSAVTLSIDNASIILTATVIGYCRDPSPDAVNQIRKESLRA TK FNSIF 128
 PILL EKALLMRESIAMTDNEAVKVLMAAVMSGHFRMATAEKATRHERLRM YD VDFVY 270
 PIII GNEVPGHRSIRVSDDDAATFLLTAAVLTQKTI RQA KRDLSEYLTV LR SLHYV 235
 PLLV NQMEMTKVRSVNNTDAYIMIYVCVMNDKYDMDKA KELARMQRFKC VS LDELY 333

FIG. 7

		10	20	30	40	
	****	
consensus	1	FDWEDYL---	EETGARAAPVELF---	DKQPVDSPNGFKV	34	
lin-61	146	VNYVNNCi-d	GEIVGQTSLSPKF---	DEGKALLSKHRFKV	181	
lin-61	23	YLWESYLhqf	EKGKTSFIPVEAF---	NRNLTVNFNECVKE	59	
lin-61	388	FRWDEYL---	EKESAETLPLDLF---	KPMPSQERLDKFKV	421	
hl(3)mbt	206	WSWESYL---	EEQKAITAPVSLFg---	DSQAVTHNKNNGFKL	240	
hl(3)mbt	314	FSWSQYM---	CSTRAQAAPKMF---	VSQSHSPPLGFQV	347	
hl(3)mbt	422	FCWEKYL---	EETGASAVPTWAF-----	KVRPPHSFLV	451	
tumor sup(Dm)	819	FRWSEYLk---	SKGKDVAAPIHLF----	LNPFPISPNCFEI	852	
tumor sup(Dm)	926	FSWSRYL---	VKTGGKAAPRALFghl	NMQQMDVRNGFAV	962	
tumor sup(Dm)	1035	FIWDDYI---	SEVGGMAASKELF-----	TPRQPMQEYQE	1064	
scmhl (mouse)	28	FTWDKYL---	KETCSVPAPVHCF----	KQSYTPPSNEFKI	60	
scml2 (human)	139	SSWPMFLl-k	TLNGSEMASATLF---	KKEPPKPLNNFKV	174	
		50	60	70	80	
	****	
consensus	35	-----GMKLEAVDP-----	RNPSLICVATVVEVKGYR	61		
lin-61	182	-----GQRLELLNY-----	SNSTEIRVARIQICGRR	208		
lin-61	60	-----GVIFETVVHdy	kncDSIQVRWFARIEKVC	GYR	92	
lin-61	422	iliskrvGLRLEADM-----	CENQFICPATVKSVMHGR	L	455	
hl(3)mbt	241	-----GMKLEGIDP-----	QHPSMYFILTVAEVC	GYR	267	
hl(3)mbt	348	-----GMKLEAVDR-----	MNPSLVCVASVTDVVD	SR	374	
hl(3)mbt	452	-----NMKLEAVDR-----	RNPALIRVASVEDVED	HR	478	
tumor sup(Dm)	853	-----GMKLEAIDP-----	ENCSLFCVCSIVEVR	GYR	879	
tumor sup(Dm)	963	-----GMHLEAEDL-----	NDTGKICVATVTDIL	DER	989	
tumor sup(Dm)	1065	-----RMKLEVVDQ-----	RNPCLIRPATVVTTR	KYR	1091	
scmhl (mouse)	61	-----SMKLEAQDP-----	RNTTSTCIATVVGLT	GAR	87	
scml2 (human)	175	-----GMKLEAIDK-----	KNPYLICPATIGDV	KGE	201	
		90	100	110	120	
	****	
consensus	62	LLLHFD-----	GWDDR-----	YDFWCDADSPDIF	85	
lin-61	209	MNVSIITk	kdfpeslpaDDDRqv	fssgSQYWIDEGS	FFIF	246
lin-61	93	VLAQFI-----	GAD-----	TKFWLNILSDDMF	114	
lin-61	456	INVNFD-----	GWDEE-----	FDELYDVDSHDIL	479	
hl(3)mbt	268	LRLHFD-----	GYSEC-----	HDFWVNANSPDIH	291	
hl(3)mbt	375	FLVHFD-----	NWDDT-----	YDYWCDPSSPYIH	398	
hl(3)mbt	479	IKIHFD-----	GWSHG-----	YDFWIDADHPDIH	502	
tumor sup(Dm)	880	LKLSFD-----	GYSSM-----	YDFWVNADSQDIF	903	
tumor sup(Dm)	990	IRVHFD-----	GWDDC-----	YDLWVHITSPYIH	1013	
tumor sup(Dm)	1092	VQLHLD-----	CWPTTE-----	YYFWLEDDSPDLH	1115	
scmhl (mouse)	88	LRLRLD-----	GSDNK-----	NDFWRLVDSSEIQ	111	
scml2 (human)	202	VHITFD-----	GWSGA-----	FDYWCKYDSRDIF	225	
		130				
	**			
consensus	86	PVGWCEKNGHPLQPP	100			
lin-61	249	PVGFAAVNGYQLNAK	263			
lin-61	115	GLANAAM-SDPNMDK	128			
lin-61	480	PIGWCEAHSYVLQPP	494			
hl(3)mbt	292	PAGWFECTGHKLQLP	306			
hl(3)mbt	399	PVGWCQKQKPLTPP	413			
hl(3)mbt	503	PAGWCSKTGHPLQPP	517			
tumor sup(Dm)	904	PPGWCDATARVLQAP	918			
tumor sup(Dm)	1014	PCGWHEGRQQLIVPP	1028			
tumor sup(Dm)	1116	PIGWCEATSHELETP	1130			
scmhl (mouse)	112	PIGNCEKNGGMLQPP	126			
scml2 (human)	226	PAGWCRLTGDVLQPP	240			

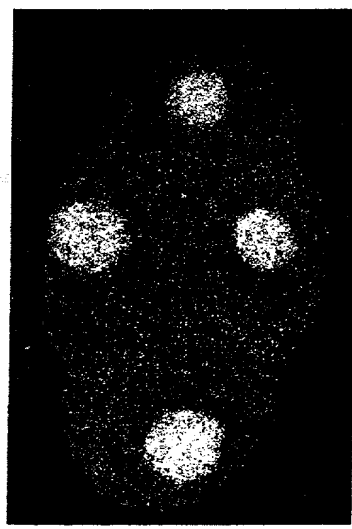
FIG. 9A

FIG. 9A



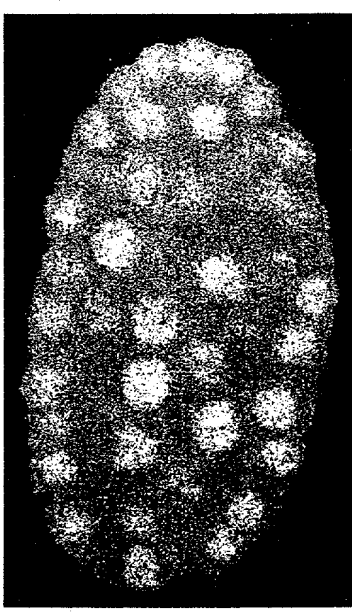
2-cell embryo

FIG. 9B



4-cell embryo

FIG. 9C



multicellular embryo

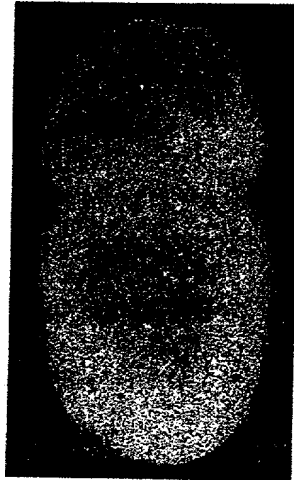
FIG. 9D



vulval region of an L4 larva

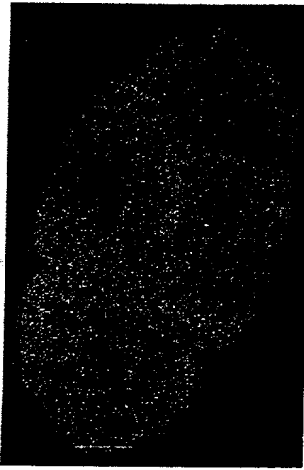
FIG. 10A

FIG. 10A



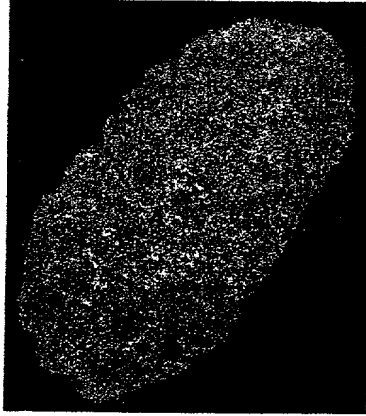
2-cell embryo

FIG. 10B



4-cell embryo

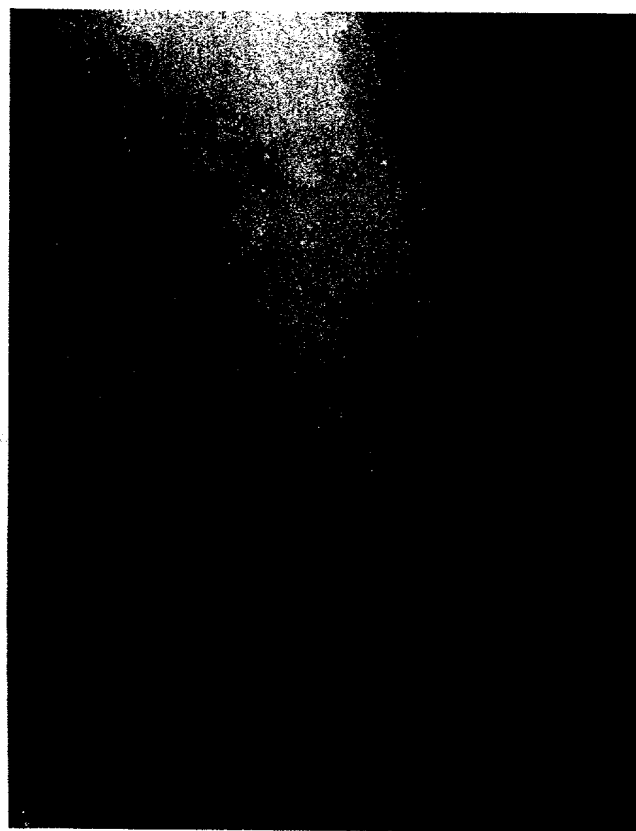
FIG. 10C



multicellular embryo

FIG. 10D

FIG. 10D



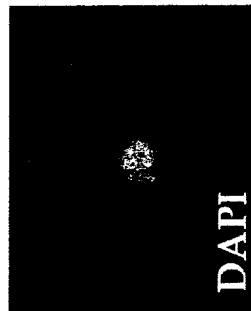
vulval region of an L4 larva

FIG. 11A



FIG. 11A

FIG. 11B



DAPI

FIG. 11C

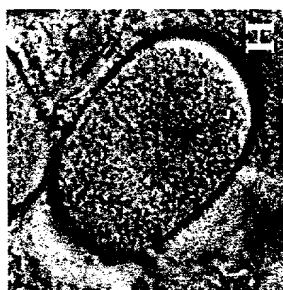


α Tubulin

FIG. 12D



FIG. 12H



that they have the same shape as the other two, but they are not the same size. The one on the left is the smallest, the one in the middle is the largest, and the one on the right is the same size as the one on the left.

FIG. 13A

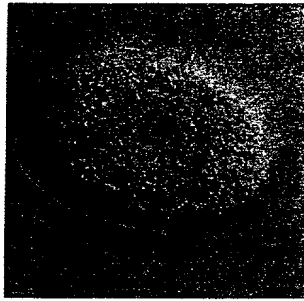


FIG. 13B

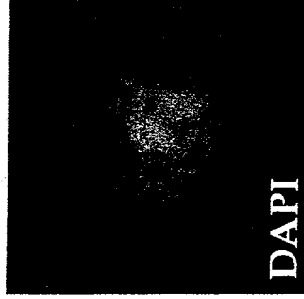


FIG. 13C

